Index to Volume 30

Author Index

ATKINS, PAUL D., and DENNIS L. GORLICK
Effects of the cleaning behavior of *Labroides dimidiatus* on fish ectoparasites [abstract], 214

BAILEY-BROCK, JULIE H.
Habitats of tubicolous polychaetes from the Hawaiian Islands and Johnston Atoll, 69–81
BANNER, ALBERT H.
In memoriam, 207–210
BARRAGAN, J. H.
see Squires and Barragan
BARTHOLOMEW, EDWIN F.
see Newbury and Bartholomew
BAYER, FREDERICK M.
see Grigg and Bayer
BROWN, R. MALCOLM, JR
see Carson and Brown

CAPERON, JOHN, WAYNE A. HARVEY, and FRANCES A. STEINHILPER
Particulate organic carbon, nitrogen, and chlorophyll as measures of phytoplankton and detritus standing crops in Kaneohe Bay, Oahu, Hawaiian Islands, 317–327
see also Harvey and Caperon
see also Szyper, Hirota, Caperon, and Ziemann
CARSON, JOHNNY L., and R. MALCOLM BROWN, JR.
The correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205
CHAPMAN, R. L., and B. H. GOOD
Observations on the morphology and taxonomy of *Phycopeltis hawaiiensis* King (Chroolepidaceae), 187–195
COLES, STEPHEN L., PAUL L. JOKIEL, and CLARK R. LEWIS
Thermal tolerance in tropical versus subtropical Pacific reef corals, 159–166
COOKE, WILLIAM J.
Comparative ultrastructure of intestinal epithelia from a freshwater prawn and a desert scorpion [abstract], 213–214
CORBIN, J. S.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada
CREAR, DAVID
see Shultz and Crear

DOUGLAS, COLEEN A.
Availability of drift materials and the covering response of the sea urchin *Strongylocentrotus purpuratus* (Stimpson), 83–89

EVANS, PAMELA
see Mullin and Evans

FIELDING, ANN, and SAMUEL R. HALEY
Sex ratio, size at reproductive maturity, and reproduction of the Hawaiian Kona crab, *Ranina ranina* (Linnaeus) (Brachyura, Gymnopleura, Raninidae), 131–145

GOOD, B. H.
see Chapman and Good
GORLICK, DENNIS L.
see Atkins and Gorlick
GRIGG, RICHARD W., and FREDERICK M. BAYER
Present knowledge of the systematics and zoogeography of the order Gorgonacea in Hawaii, 167–175
GUERNSEY, DUANE L.
Mechanism of thermoregulatory heat production during cold acclimation in the rat: role of active Na^+ transport [abstract], 217
GUNDERSEN, K. R., J. S. CORBIN, C. L. HANSON, M. L. HANSON, R. B. HANSON, D. J. RUSSELL, A. STOLLAR, and O. YAMADA
Structure and biological dynamics of the oligotrophic ocean photic zone off the Hawaiian Islands, 45–68
see also Hanson and Gundersen

HALEY, SAMUEL R.
see Fielding and Haley
HANSON, C. L.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada
HANSON, M. L.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada
HANSON, R. B., and K. R. GUNDERSEN
Bacterial nitrogen fixation in a polluted coral reef flat ecosystem, Kaneohe Bay, Oahu, Hawaiian Islands, 385–393
see also Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada
HARTLEY, FOUNT K.
see Smith and Hartley
HARVEY, WAYNE A., and JOHN CAPERON
The rate of utilization of urea, ammonium, and nitrate by natural populations of marine phytoplankton in a eutrophic environment, 329–340
see also Caperon, Harvey, and Steinhilper
HENSLEY, DANNIE A.
see Schreiber and Hensley
HIROTA, JED, and JAMES P. SZYPER
Standing stocks of zooplankton size-classes and trophic levels in Kaneohe Bay, Oahu, Hawaiian Islands, 341–361
see also Szyper, Hirota, Caperon, and Ziemann

JAMESON, STEPHEN C.
Early life history of giant clams *Tridacna crocea* Lamarck, *Tridacna maxima* (Röding), and *Hippopus hippopus* (Linnaeus), 219–233
JOKIEL, PAUL L.
see Coles, Jokiel, and Lewis

LEWIS, CLARK R.
see Coles, Jokiel, and Lewis
LIGHTER, FREDERICK J.
The social use of space in the Hawaiian ghost crab, *Ocypode ceratophthalmus* [abstract], 211–212
LLOYD, JOHN W.
The hydrogeology and water supply problems in north-central Chile, 91–100

MACDONALD, CRAIG D.
Nesting rhythmicity in the damselfish *Plectroglyphidodon johnstonianus* (Perciformes, Pomacentridae) in Hawaii [abstract], 216
MOTTA, PHILIP J.
Anatomy and functional morphology of dermal collagen fibers in sharks [abstract], 213
MULLIN, MICHAEL M., and PAMELA M. EVANS
Distribution, morphometry, and seasonal biology of the planktonic copepods *Neocalanus robustior* and *Neocalanus gracilis* in the Pacific Ocean, 119–130

NEWBURY, T. K., and EDWIN F. BARTHOLOMEW
Secondary production of microcopepods in the southern, eutrophic basin of Kaneohe Bay, Oahu, Hawaiian Islands, 373–384

OPRESKO, DENNIS M.
Redescription of *Antipathes panamensis* Verrill, (Coelenterata, Antipatharia), 235–240

PEEBLES, JOHN BRAD
The role of relative size in competition for shelter by *Macrobrachium rosenbergii* (Decapoda) [abstract], 212–213

RALSTON, STEPHEN
Anomalous growth and reproductive patterns in populations of *Chaetodon miliaris* (Pisces, Chaetodontidae) from Kaneohe Bay, Oahu, Hawaian Islands, 395–403
Fecundity as a measure of reproductive investment in marine fishes [abstract], 213
REDALJE, RANDI
Light adaptation strategies of hermatypic corals [abstract], 212
RENAUD, MAURICE L.
Observations on the behavior and shell types of *Cypraea moneta* (Mollusca, Gastropoda) at Enewetak, Marshall Islands, 147–158

RUSSELL, D. J.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada

ST. JOHN, HAROLD
Biography of David Nelson, and an account of his botanizing in Hawaii, 1–5
New species of Hawaiian plants collected by David Nelson in 1779. Hawaiian Plant Studies 52, 7–44
Revision of the genus *Pandanus* Stickman. Part 40, The Fijian species of the section *Pandanus*, 249–315
SCHREIBER, RALPH W., and DANNIE A. HENSLEY
The diets of *Sula dactylatra*, *Sula sula*, and *Fregata minor* on Christmas Island, Pacific Ocean, 241–248
SCOWCROFT, PAUL G., and HULTON B. WOOD
Reproduction of *Acacia koa* after fire, 177–186
SHULTZ, CYNTHIA D., and DAVID CREAR
The distribution of total and organic mercury in seven tissues of the Pacific blue marlin, *Makaira nigricans*, 101–107
SMITH, ALBERT C., and FOUNT K. HARTLEY
Keloid in the gray reef shark, *Carcharhinus amblyrhynchos*, 109–112
SQUIRES, H. J., and J. H. BARRAGAN
A new species of *Plesionika* (Crustacea, Decapoda, Pandalidae) from the Pacific coast of Colombia, 113–117
STEINHILPER, FRANCES A.
see Caperon, Harvey, and Steinhilper
STOLLAR, A.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada
SZYPER, JAMES P., JED HIROTA, JOHN CAPERON, and DAVID A. ZIEMANN
Nutrient regeneration by the larger net zooplankton in the southern basin of Kaneohe Bay, Oahu, Hawaiian Islands, 363–372
see also Hirota and Szyper

WEATHERBY, TINA M.
The use of beach crab erythrophores as a rapid assay for neurosecretion [abstract], 215
WHITE, JANET
Studies on the coral-boring polychaete *Spirobranchus giganteus* (Serpulidae) in Hawaii [abstract], 216
WINANS, GARY
Food habits of two sympatric batfishes (Ogcocephalidae) offshore of Cape Canaveral, Florida [abstract], 215
WOOD HULTON, B.
see Scowcroft and Wood

YAMADA, O.
see Gundersen, Corbin, Hanson, Hanson, Hanson, Russell, Stollar, and Yamada

ZIEMANN, DAVID A.
see Szyper, Hirota, Caperon, and Ziemann

Subject Index*

Acacia koa, reproduction of, after fire, 177–186
Achyranthes Nelsonii sp. nov., 7–44
Albert L. Tester Memorial Symposium, abstracts of papers, 211–217
Angiospermae
  new species of Hawaiian plants collected by David Nelson in 1779. Hawaiian Plant Studies 52, 7–44
  reproduction of *Acacia koa* after fire, 177–186
  revision of the genus *Pandanus* Stickman. Part 40, the Fijian species of the section *Pandanus*, 249–315
Anthozoa
  light adaptation strategies of hermatypic corals, 212
  present knowledge of the systematics and zoogeography of the order Gorgonacea in Hawaii, 167–175
  redescription of *Antipathes panamensis* Verrill (Antipatharia), 235–240
  thermal tolerance in tropical versus subtropical Pacific reef corals, 159–166
Arachnida
  comparative ultrastructure of intestinal epithelia from a freshwater prawn and a desert scorpion, 213–214
Aves
  the diets of *Sula dactylatra*, *Sula sula*, and *Fregata minor* on Christmas Island, Pacific Ocean, 241–248

Bacillariophyceae
  the correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205
Bivalvia
  early life history of giant clams *Tridacna crocea* Lamarck, *Tridacna maxima* (Röding), and *Hippopus hippopus*, (Linnaeus), 219–233

California
  availability of drift materials and the covering response of the sea urchin *Strongylocentrotus purpuratus* (Stimpson), 83–89
Carcharinus amblyrhynchos, keloid in, 109–112
Chaetodon miliaris, anomalous growth and reproductive patterns in populations of, from Kaneohe Bay, Oahu, Hawaiian Islands, 395–403
Chile
  hydrogeology and water supply problems in north-central, 91–100
Chlorophyceae
  correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205
  observations on the morphology and taxonomy of *Phycopeltis hawaiiensis* King (Chroolepidaceae), 187–195
Christmas Island
  the diets of *Sula dactylatra*, *Sula sula*, and *Fregata minor* on Christmas Island, Pacific Ocean, 241–248
Clermontia konaensis sp. nov., 7–44
Colombia
  a new species of *Plesionika* (Crustacea, Decapoda, Pandalidae) from the Pacific coast of, 113–117
Crustacea
  comparative ultrastructure of intestinal epithelia from a freshwater prawn and a desert scorpion, 213–214
  distribution, morphometry, and seasonal biology of the planktonic copepods *Neocalanus robustior* and *Neocalanus gracilis* in the Pacific Ocean, 119–130
  effect sof the cleaning behavior of *Labroides dimidiatus* on fish ectoparasites, 214
  new species of *Plesionika* (Decapoda, Pandalidae) from the Pacific coast of Colombia, 113–117
  role of relative size in competition for shelter by *Macrobranchium rosenbergii* (Decapoda), 212–213
  secondary production of microcopepods in the southern, eutrophic basin of Kaneohe Bay, Oahu, Hawaiian Islands, 373–384
  sex ratio, size at reproductive maturity, and reproduction of the Hawaiian Kona crab, *Ranina ranina* (Linnaeus) (Brachyura, Gymnopleura, Raninidae), 131–145
  social use of space in the Hawaiian ghost crab, *Ocypode ceratophthalmus*, 211–212
  use of beach crab erythrophores as a rapid assay for neurosecretion, 215
Cyanea Nelsonii sp. nov., 7–44
Cyanophyceae
  the correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205
Cypraea moneta, observations on the behavior and shell types of, at Enewetak, Marshall Islands, 147–158

Detritus standing crop, particulate organic carbon, nitrogen, and chlorophyll as measure of, in Kaneohe Bay, Oahu, Hawaiian Islands, 317–327

Echinoidea
  availability of drift materials and the covering response of the sea urchin *Strongylocentrotus purpuratus* (Stimpson), 83–89
Enewetak Atoll
  effects of the cleaning behavior of *Labroides dimidiatus* on fish ectoparasites, 214
  keloid in the gray reef shark, *Carcharhinus amblyrhynchos*, 109–112
  observations on the behavior and shell types of *Cypraea moneta* at, 147–158
  thermal tolerance in tropical versus subtropical Pacific reef corals, 159–166
Euphorbia celastroides Boiss., var. *Nelsonii* var. nov., 7–44

Fijian Islands
  revision of the genus *Pandanus* Stickman. Part 40, the Fijian species of the section *Pandanus*, 249–315
Filicinae
  the correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205

* Biological organisms are indexed under their respective classes.

Florida
food habits of two sympatric batfishes (Ogcocephalidae) offshore of Cape Canaveral, 215
Fregata minor, diet of, in Christmas Island, Pacific Ocean, 241–248

Gastropoda
observations on the behavior and shell types of *Cypraea moneta* at Enewetak, Marshall Islands, 147–158
Gorgonacea, present knowledge of the systematics and zoogeography of, in Hawaii, 167–175
Gray reef shark, keloid in, 109–112
Groundwater, management and utilization of, in north-central Chile, 91–100
Guam
early life history of giant clams *Tridacna crocea* Lamarck, *Tridacna maxima* (Röding), and *Hippopus hippopus* (Linnaeus), 219–233

Hawaiian ghost crab, social use of space in, 211–212
Hawaiian Islands
anomalous growth and reproductive patterns in populations of *Chaetodon miliaris* (Pisces, Chaetodontidae) from Kaneohe Bay, Oahu, 395–403
bacterial nitrogen fixation in a polluted coral reef flat ecosystem, Kaneohe Bay, Oahu, 385–393
biography of David Nelson, and an account of his botanizing in Hawaii, 1–5
correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205
distribution of total and organic mercury in seven tissues of the Pacific blue marlin, *Makaira nigricans*, 101–107
habitats of tubicolous polychaetes from, 69–81
nesting rhythmicity in the damselfish *Plectroglyphidodon johnstonianus* (Perciformes, Pomacentridae) in, 216
new species of Hawaiian plants collected by David Nelson in 1779. Hawaiian Plant Studies 52, 7–44
nutrient regeneration by the larger net zooplankton in the southern basin of Kaneohe Bay, Oahu, 363–372
particulate organic carbon, nitrogen, and chlorophyll as measures of phytoplankton and detritus standing crops in Kaneohe Bay, Oahu, 317–327
present knowledge of the systematics and zoogeography of the order Gorgonacea in, 167–175
rate of utilization of urea, ammonium, and nitrate by natural populations of marine phytoplankton in a eutrophic environment, 329–340
reproduction of *Acacia koa* after fire, 177–186
secondary production of microcopepods in the southern, eutrophic basin of Kaneohe Bay, Oahu, 373–384
sex ratio, size at reproductive maturity, and reproduction of the Hawaiian Kona crab, *Ranina ranina* (Linnaeus) (Brachyura, Gymnopleura, Raninidae), 131–145
social use of space in the Hawaiian ghost crab, *Ocypode ceratophthalmus*, 211–212
standing stocks of zooplankton size-classes and trophic levels in Kaneohe Bay, Oahu, 341–361
structure and biological dynamics of the oligotrophic ocean photic zone off the, 45–68
studies on the coral-boring polychaete *Spirobranchus giganteus* (Serpulidae) in, 216
thermal tolerance in tropical versus subtropical Pacific reef corals, 159–166
Hawaiian Kona crab, sex ratio, size at reproductive maturity, and reproduction of, 131–145
Hippopus hippopus, early life history of, 219–233

Johnston Atoll
habitats of tubicolous polychaetes from, 69–81

Kaneohe Bay
see Hawaiian Islands
Key
to the Fijian species of the section *Pandanus*, 249–251

Labordia Nelsonii sp. nov., 7–44
Labroides dimidiatus, effects of the cleaning behavior of, on fish ectoparasites, 214
Lipochaeta scabra sp. nov., 7–44
Lipochaeta trilobata sp. nov., 7–44

Macrobrachium rosenbergii, the role of relative size in competition for shelter by, 212–213
Makaira nigricans, distribution of total and organic mercury in seven tissues of, 101–107
Mammalia
mechanism of thermoregulatory heat production during cold acclimation in the rat: role of active Na^+ transport, 217
Marshall Islands
see Enewetak Atoll
Microcopepods, secondary production of, in the southern, eutrophic basin of Kaneohe Bay, Oahu, Hawaiian Islands, 373–384

Nelson, David
and an account of his botanizing in Hawaii, 1–5
new species of Hawaiian plants collected by, in 1779, 7–44
Neocalanus gracilis, distribution, morphometry, and seasonal biology of, in the Pacific Ocean, 119–130
Neocalanus robustior, distribution, morphometry, and seasonal biology of, in the Pacific Ocean, 119–130
Neraudia Cookii sp. nov., 7–44
New combination
Pandanus pyriformis (Martelli) (Angiospermae), 249–315
Pandanus suvaensis (Martelli) (Angiospermae), 249–315
Phyllostegia Forbesii (Sherff) (Angiospermae), 7–44
Stenogyne biflora (Sherff) (Angiospermae), 7–44
New species
Achyranthes Nelsonii (Angiospermae), 7–44
Clermontia konaensis (Angiospermae), 7–44
Cyanea Nelsonii (Angiospermae), 7–44
Labordia Nelsonii (Angiospermae), 7–44

New species (*cont.*)
Lipochaeta scabra (Angiospermae), 7–44
Lipochaeta trilobata (Angiospermae), 7–44
Neraudia Cookii (Angiospermae), 7–44
Pandanus alveatus (Angiospermae), 249–315
Pandanus crasssiaculeatus (Angiospermae), 249–315
Pandanus elongatus (Angiospermae), 249–315
Pandanus Kraussii (Angiospermae), 249–315
Pandanus lambasaensis (Angiospermae) 249–315
Pandanus lauensis (Angiospermae), 249–315
Pandanus matukuensis (Angiospermae) 249–315
Pandanus Mbalawa (Angiospermae), 249–315
Pandanus moalaensis (Angiospermae), 249–315
Pandanus nandiensis (Angiospermae), 249–315
Pandanus onoilauensis (Angiospermae), 249–315
Pandanus ovalauensis (Angiospermae), 249–315
Pandanus pansus (Angiospermae), 249–315
Pandanus Parhamii (Angiospermae), 249–315
Pandanus patulior (Angiospermae), 249–315
Pandanus rhizophorensis (Angiospermae), 249–315
Pandanus seruaensis (Angiospermae), 249–315
Pandanus Smithii (Angiospermae), 249–315
Pandanus subhumerosus (Angiospermae), 249–315
Pandanus Vandra (Angiospermae), 249–315
Pandanus vatoaensis (Angiospermae), 249–315
Pandanus wayeansis (Angiospermae), 249–315
Pandanus yasawaensis (Angiospermae), 249–315
Peperomia plinervata (Angiospermae), 7–44
Phyllostegia Ledyardii (Angiospermae), 7–44
Phyllostegia longimontis (Angiospermae), 7–44
Phyllostegia villosa (Angiospermae), 7–44
Plesionika trispinus (Crustacea), 113–117
Sida Ledyardii (Angiospermae), 7–44
Sida Nelsonii (Angiospermae), 7–44
Stenogyne hirsutula (Angiospermae), 7–44
Urera konaensis (Angiospermae), 7–44
New variety
Euphorbia celastroides Boiss., var. *Nelsonii* (Angiospermae), 7–44
Nitrogen fixation, bacterial, in a polluted coral reef flat, ecosystem, Kaneohe Bay, Oahu, Hawaiian Islands, 385–393

Ocypode ceratophthalmus, social use of space in, 211–212
Ocypode laevis, use of erythrophores of, as a rapid assay for neurosecretion, 215
Oligotrophic ocean photic zone off the Hawaiian Islands, structure and biological dynamics of, 45–68

Pacific blue marlin, distribution of total and organic mercury in seven tissues of, 101–107
Palau
early life history of giant clams *Tridacna crocea* Lamarck, *Tridacna maxima* (Röding), and *Hippopus hippopus* (Linnaeus), 219–233
Panama
redescription of *Antipathes panamensis* Verrill (Coelenterata, Antipatharia), 235–240
Pandanus alveatus sp. nov., 249–315
Pandanus crassiaculeatus sp. nov., 249–315
Pandanus elongatus sp. nov., 249–315
Pandanus Kraussii sp. nov., 249–315
Pandanus lambasaensis sp. nov., 249–315
Pandanus lauensis sp. nov., 249–315
Pandanus matukuensis sp. nov., 249–315
Pandanus Mbalawa sp. nov., 249–315
Pandanus moalaensis sp. nov., 249–315
Pandanus nandiensis sp. nov., 249–315
Pandanus onoilauensis sp. nov., 249–315
Pandanus ovalauensis sp. nov., 249–315
Pandanus pansus sp. nov., 249–315
Pandanus Parhamii sp. nov., 249–315
Pandanus patulior sp. nov., 249–315
Pandanus pyriformis (Martelli) comb. nov., 249–315
Pandanus rhizophorensis sp. nov., 249–315
Pandanus seruaensis sp. nov., 249–315
Pandanus Smithii sp. nov., 249–315
Pandanus subhumerosus sp. nov., 249–315
Pandanus swaensis (Martelli) comb. nov., 249–315
Pandanus Vandra sp. nov., 249–315
Pandanus vatoaensis sp. nov., 249–315
Pandanus wayaensis sp. nov., 249–315
Pandanus yasawaensis sp. nov., 249–315
Peperomia plinervata sp. nov. (subgen. *Hawaiiana*), 7–44
Phycopeltis hawaiiensis, observations on the morphology and taxonomy of, 187–195
Phyllostogia Forbesii (Sherff) comb. nov., 7–44
Phyllostegia Ledyardii sp. nov., 7–44
Phyllostegia longimontis sp. nov., 7–44
Phyllostegia villosa sp. nov., 7–44
Phytoplankton standing crop, particulate organic carbon, nitrogen, and chlorphyll as measure of, in Kaneohe Bay, Oahu, Hawaiian Islands, 317–327
Pisces
anatomy and functional morphology of dermal collagen fibers in sharks, 213
anomalous growth and reproductive patterns in populations of *Chaetodon miliaris* (Chaetodontidae) from Kaneohe Bay, Oahu, Hawaiian Islands, 395–403
distribution of total and organic mercury in seven tissues of the Pacific blue marlin, *Makaira nigricans*, 101–107
effects of the cleaning behavior of *Labroides dimidiatus* on fish ectoparasites, 214
fecundity as a measure of reproductive investment in marine fishes, 213
food habits of two sympatric batfishes (Ogcocephalidae) offshore of Cape Canaveral, Florida, 215
keloid in the gray reef shark, *Carcharhinus amblyrhynchos*, 109–112
nesting rhythmicity in the damselfish *Plectroglyphidodon johnstonianus* (Perciformes, Pomacentridae) in Hawaii, 216
Plectroglyphidodon johnstonianus, nesting rhythmicity in, in Hawaii, 216
Plesionika trispinus new species, 113–117
Polychaeta
habitats of tubicolous polychaetes from the Hawaiian Islands and Johnston Atoll, 69–81
studies on the coral-boring polychaete *Spirobranchus giganteus* (Serpulidae) in Hawaii, 216

Ranina ranina, sex ratio, size at reproductive maturity, and reproduction of, 131–145
Revision of the genus *Pandanus* Stickman
40. The Fijian species of the section *Pandanus*, 249–315

Schizomycetes
bacterial nitrogen fixation in a polluted coral reef flat ecosystem, Kaneohe Bay, Oahu, Hawaiian Islands, 385–393
Sida Leyardii sp. nov., 7–44
Sida Nelsonii sp. nov., 7–44
Spirobranchus giganteus, studies on, in Hawaii, 216
Stenogyne biflora (Sherff) comb. nov., 7–44
Stenogyne hirsutula sp. nov., 7–44
Sula dactylatra, diet of, on Christmas Island, Pacific Ocean, 241–248
Sula sula, diet of, on Christmas Island, Pacific Ocean, 241–248

Tester, Albert Lewis, in memoriam, 207–210
Tridacna crocea, early life history of, 219–233
Tridacna maxima, early life history of, 219–233

Urera konaensis sp. nov., 7–44

Xanthophyceae
the correlation of soil algae, airborne algae, and fern spores with meteorological conditions on the island of Hawaii, 197–205

Zooplankton standing stocks, size-classes and trophic levels of, in Kaneohe Bay, Oahu, Hawaiian Islands, 341–361